

51

Prepared for

PROTECO

Peñuelas, Puerto Rico

**2001 ANNUAL INSPECTION REPORT
RCRA UNITS
FORMER PROTECO FACILITY
PEÑUELAS, PUERTO RICO**

Prepared by

LAW Environmental - Caribe

1570 Américo Miranda Avenue
Rio Piedras, Puerto Rico 00921

Project Number 12000-1-0141

m36
CEPD-DIRECTOR OFFICE

2002 MAY 10 AM 8:48

U.S. ENV. PROT. AGENCY

*Rev. 5/10/02
AKS*

November 13, 2001

May 1, 2002

Mr. Angel Salgado
CARIBBEAN ENVIRONMENTAL PROTECTION DIVISION
Centro Europa Building
1492 Ponce Deleon Avenue, Suite 417
San Juan, Puerto Rico 00907-4127

Subject: PROTECO ID# PRD091018622
2001 Annual Inspection Report

Dear Mr. Salgado:

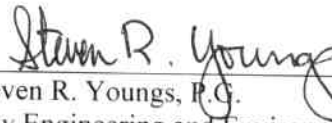
Law Environmental – Caribe in association with Law Engineering and Environmental Services, Inc. (LAW) is pleased to submit our 2001 Annual Inspection Report for the former PROTECO facility, near Peñuelas, Puerto Rico. Under the direction of Mr. Glenn Coffman, P.E., Mr. Steven Youngs performed the annual inspection on November 11, 2001. Ms. Ana del Pilar, an agent of PROTECO, performed the quarterly inspections, documented the daily rainfall events, and documented the removal of leachate from the CAMU. These inspections and documentation have been included as appendices to this 2001 Annual Inspection Report.

If you have any questions, please feel free to give us a call at 770-421-3400.

Sincerely,



Glenn N. Coffman, P.E., Partner
Law Engineering – Caribe



Steven R. Youngs, P.E.
Law Engineering and Environmental Services, Inc.

2001 ANNUAL INSPECTION REPORT

PROTECO
Former Facility
Peñuelas, Puerto Rico

Prepared for:
PROTECO
20 Washington Street
Cond. Caribbea Apt. PHC
San Juan, Puerto Rico 00907

Prepared by:
Law Engineering – Caribe
1570 Américo Miranda Avenue
Río Piedras, Puerto Rico 00921

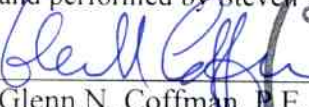
In Association With

Law Engineering and Environmental Services, Inc.
3200 Town Point Drive, Suite 100
Kennesaw, Georgia 30144

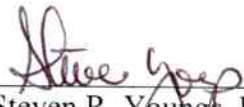
November 13, 2001

Developed and Submitted By:

This work was prepared under the guidance of a Partner of Law Engineering – Caribe, Glenn Coffman and performed by Steven Youngs.


Glenn N. Coffman, P.E., Partner
Law Engineering – Caribe




Steven R. Youngs, P.G.
Law Engineering and Environmental
Services, Inc.

DATE: November 13, 2001

PROTECO Inspection and Maintenance Report

INSPECTION ITEM	CONDITION ¹			PHOTO ID	COMMENTS (Indicate Locations on Plan Sheet)
	NA	MN	IA		

SECURITY CONTROL					
Condition of Fence and Gates	✓				PROTECO was in the process of relocating the gate for access to Unit 9. Fencing surrounding the units is in good condition. Gates were found locked and in good condition.
Condition of Signs	✓				Warning signs were visible and securely attached to fence.
Other	✓				Waste Management, who is operating a industrial waste landfill adjacent to the units, has installed a new controlled entrance gate. The gate is manned by a security guard during operational hours. At all other times, the gate is closed and secured by locks.
EROSION CONTROLS/DAMAGE					
Perimeter Ditches	✓				The maintenance recommended in the 2000 Annual Inspection Report has been made and no further erosion was observed. All perimeter ditches were functioning as designed. The perimeter ditch north of Unit 1 and south of Unit 2/3 is in good condition. The perimeter ditch north of Unit 2/3 is in good condition. The perimeter ditch east of Units 13, 17 and 10/11 and continuing north and west of Unit 9 is in good condition. The perimeter ditch east of Unit 12/16 is in good condition. The southeast corner of this perimeter ditch has been repaired as recommended in the 2000 Annual Inspection Report.
Sediment Traps	✓				A sediment trap has been constructed as recommended in the 2000 Annual Inspection Report before the headwall of the four culverts crossing under the access road adjacent to Unit 9. The sediment trap is functioning as intended.
Sediment Build-up	✓				The sediment has been cleaned as recommended in the 2000 Annual Inspection Report from the four culverts crossing under the access road adjacent to Unit 9. The perimeter ditches have been maintained and no accumulation of sediment was observed.
Culvert End-Walls	✓				Good condition.
Brush/Trees/Debris	✓				None observed.

DATE: November 13, 2001

PROTECO Inspection and Maintenance Report

INSPECTION ITEM	CONDITION ¹			PHOTO ID	COMMENTS (Indicate Locations on Plan Sheet)
	NA	MN	IA		
Ponding or Wet Areas	✓				No ponding or evidence of ponding was observed either on the units or in the perimeter ditches.
Riprap	✓				Good condition.
Other					
FINAL COVER CONDITION					
Undesirable Vegetation	✓				No woody plants were observed.
Erosion	✓				Units 1, 5, 9, 10/11, 13, 12/16 and 17 were in good condition. Unit 2/3 shows some erosion problems.
Drainage	✓				All Units are draining well with positive surface flow runoff.
Cracks	✓				None observed.
Depressions/Ponded Water	✓				None observed.
Settlement	✓				None observed. See Appendix A for annual survey information.
Surface Armor		✓			<p>Appeared that recent maintenance had been performed to erosion features on Unit 2/3 (recent maintenance activities with the placement of soil).</p> <p>Vegetation for all Units 1, 5, 9, 10/11, 12/16, 13 & 17 were generally in good condition. Sparse to small bare areas were limited in extent and were beginning to fill in with vegetation.</p>
Burrows	✓				None observed.
Other					
GAS MANAGEMENT SYSTEM					
Condition of Gas Vents	✓				<p>Some of the gas vents were noted to be leaning which may be a result of maintenance (mowing) activities. Care should be taken when performing any activity around these vents.</p> <p>Otherwise, the landfill gas vents are in good condition. No landfill gas was observed from any of the gas vents.</p>

DATE: November 13, 2001

PROTECO

Inspection and Maintenance Report

INSPECTION ITEM	CONDITION ¹			PHOTO ID	COMMENTS (Indicate Locations on Plan Sheet)
	NA	MN	IA		

Other					
CAMU – LEACHATE COLLECTION SYSTEM					
Depth of Leachate					Not measured.
Other					
BENCHMARKS					
Condition		✓			Benchmark 1 remains in good condition.
Elevation Surveyed					
Other					
OTHER OBSERVATIONS					
Survey Plat	✓				No up-date to survey plat is needed. No on-going changes in the configuration of the terrain and no alterations to the surface water drainage patterns were observed.
Unit 9 (CAMU)					
Sediment Basin	✓				The sediment basin is being maintained by Waste Management as part of their on-going landfill operations and in accordance with their approved Puerto Rico Environmental Quality Board permit.
Precipitation	✓				See Appendix B for monthly records.

DATE: November 13, 2001

PROTECO

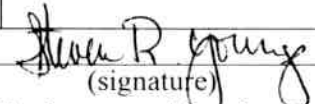
Inspection and Maintenance Report

ITEM	MAINTENANCE OR REPAIRS REQUIRED	TO BE CONDUCTED BY	DATE COMPLETED	REINSPECTED DATE/INTL.
------	---------------------------------	--------------------	----------------	------------------------

Unit 1	No maintenance or repairs required.			
Unit 2/3	No maintenance or repairs required.			
Unit 5	No maintenance or repairs required.			
Unit 9	No maintenance or repairs required.			
Unit 10/11	No maintenance or repairs required.			
Unit 12/16	No maintenance or repairs required.			
Unit 13	No maintenance or repairs required.			
Unit 17	No maintenance or repairs required.			

DATE OF INSPECTION: November 13, 2001

INSPECTOR: Steven R. Youngs
(print)


(signature)

COMPANY: Law Engineering and Environmental Services, Inc.

APPENDIX A
SURVEY DATA

Survey Data for Settlement

Coordinates		2001 Elevation		2002 Elevation		Annual Difference
66,851.61	407,225.50	327.84		327.68		0.16
66,761.86	407,209.80	325.54		325.59		(0.05)
66,778.94	407,406.72	329.33		329.32		0.01
66,728.33	407,397.42	326.77		326.75		0.02
66,525.58	407,254.89	321.38		321.39		(0.01)
66,460.28	407,204.55	320.09		320.09		0.00
66,194.50	407,092.14	336.38		336.37		0.01
66,147.62	407,056.21	335.98		335.99		(0.01)
66,291.28	406,921.44	299.69		299.87		(0.18)
66,382.11	406,965.51	302.33		302.47		(0.14)
66,460.97	407,001.70	303.89		304.00		(0.11)
66,546.79	407,049.48	304.88		304.88		0.00
68,069.92	407,223.42	408.00		408.07		(0.07)
68,079.11	407,286.62	408.70		408.69		0.01
68,078.74	407,286.93	408.52		ND		ND
68,086.63	407,349.49	407.79		407.80		(0.01)
67,920.25	406,999.48	381.17		381.20		(0.03)
67,947.87	406,960.09	382.51		382.51		0.00
67,699.45	407,075.43	358.80		358.79		0.01
67,687.80	407,131.30	359.33		359.33		0.00
67,701.82	407,185.77	361.57		361.56		0.01

ND – No Data

APPENDIX B
ANNUAL RAINAFALL DATA

2001

PROTECO

MONTH: January

DAY:	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Leachate Removal (hours/approx. gallons)														
Rainfall (inches)														

DAY:	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Leachate Removal (hours/approx. gallons)				4H 52g	6H 78g			4H 52g	5H 65g		4H 52g	4H 52g		
Rainfall (inches)														

DAY:	29	30	31
Leachate Removal (hours/approx. gallons)		4H 52g	4H 52g
Rainfall (inches)	0.35		

PROTECO**MONTH:****February**

DAY:	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Leachate Removal (hours/approx. gallons)		4H 52g			6H 78g	4H 52g	4H 52g					5H 65g	5H 65g	
Rainfall (inches)	0.20													

DAY:	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Leachate Removal (hours/approx. gallons)	4H 52g	4H 52g				5H 65g	5H 65g	5H				4H 52g	4H 52g	3H 39g
Rainfall (inches)								0.20	0.45	0.65				

DAY:	29	30	31
Leachate Removal (hours/approx. gallons)			
Rainfall (inches)			

PROTECO

MONTH:

March

DAY:	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Leachate Removal (hours/approx. gallons)	5H 65g	5H 65g			4H 52g	4H 52g	3H 39g					2H 26g	4H 52g	4H 52g
Rainfall (inches)	0.22													

DAY:	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Leachate Removal (hours/approx. gallons)	3H 39g				6H 78g	6H 78g	4H 52g	3H 39g					5H 377.5	3H 226.5
Rainfall (inches)								0.53	0.12					

DAY:	29	30	31
Leachate Removal (hours/approx. gallons)	4H 302	4H 302	
Rainfall (inches)			

3/22/01 → Submersible pump.

PROTECO

MONTH: April

DAY:	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Leachate Removal (hours/approx. gallons)		2H 151g	2H 151g						4H 302g	2H 151g	2H 151g			
Rainfall (inches)									0.35					

DAY:	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Leachate Removal (hours/approx. gallons)														
Rainfall (inches)									0.65					

DAY:	29	30	31
Leachate Removal (hours/approx. gallons)			
Rainfall (inches)			

PROTECO**MONTH:****May**

DAY:	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Leachate Removal (hours/approx. gallons)														
Rainfall (inches)							7.0		0.63		0.33			

DAY:	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Leachate Removal (hours/approx. gallons)														
Rainfall (inches)					0.45									

DAY:	29	30	31
Leachate Removal (hours/approx. gallons)			
Rainfall (inches)	0.50		

PROTECO**MONTH:****June**

DAY:	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Leachate Removal (hours/approx. gallons)	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Rainfall (inches)														

DAY:	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Leachate Removal (hours/approx. gallons)	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Rainfall (inches)				0.44										

DAY:	29	30	31
Leachate Removal (hours/approx. gallons)	/	/	/
Rainfall (inches)			

PROTECO**MONTH:****July**

DAY:	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Leachate Removal (hours/approx. gallons)	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Rainfall (Inches)	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DAY:	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Leachate Removal (hours/approx. gallons)	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Rainfall (Inches)	0	0	0	0	0	0	0	0	0.65	0	0	0	0	0

DAY:	29	30	31
Leachate Removal (hours/approx. gallons)	/	/	/
Rainfall (Inches)	0	0	0

PROTECO**MONTH:****August**

DAY:	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Leachate Removal (hours/approx. gallons)	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Rainfall (inches)	0	0	0	0	0	0	0	0	0	0.41	0	0	0	0

DAY:	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Leachate Removal (hours/approx. gallons)	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Rainfall (inches)	0	0	0	0	0	0	0	0.70	0	0.62	0	0	4.40	0

DAY:	29	30	31
Leachate Removal (hours/approx. gallons)	/	/	/
Rainfall (inches)	0	0	0

PROTECO**MONTH:****September**

DAY:	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Leachate Removal (hours/approx. gallons)	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Rainfall (inches)	0	0	0	0	0	0	0	0	0	0	0	0.40	0	0

DAY:	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Leachate Removal (hours/approx. gallons)	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Rainfall (inches)	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DAY:	29	30	31
Leachate Removal (hours/approx. gallons)	/	/	/
Rainfall (inches)	0	0	0

APPENDIX C
PHOTOGRAPHS



View of Unit 5 Looking Southeast from Unit 2/3



View of Unit 1 Looking Southwest from Unit 2/3



View of Top of Units 9 & 10/11 Looking West



View of South Slope of Unit 2/3 Looking East from By-Pass Diversion Ditch



View of Unit 1 and South Slope of Unit 2/3 Looking Southwest



View of Top of Unit 2/3 Looking Southwest



View of East Slope of Unit 2/3 Looking Southeast



View of Recent Maintenance Activity on East Slope of Unit 2/3



View of By-Pass Diversion Ditch Between Units 1 and 2/3 Looking East



View of Top of Unit 1 and South Slope of Unit 2/3 Looking North



View of By-Pass Diversion Ditch Between Units 1 and 2/3 Looking East



View of Top of Unit 1 and South Slope of Unit 2/3 Looking North



View of Top of Unit 1 and South Slope of Units 2/3 Looking North



View of Top of Unit 1 Looking Northwest



View of Top and South Slope of Unit 1 Looking West



View of Unit 5 Looking Southeast from Unit 2/3



View of Fencing and Warning Signs



View of Recent Maintenance Activity on East Slope of Unit 2/3 Looking Northwest



View of Fencing and Warning Signs



View of Recent Maintenance Activity on East Slope of Unit 2/3 Looking Northwest



View of Units 1, 2/3 & 5 Looking Northwest



View of Top of Unit 10/11 Looking North



View of Top of Units 9 & 10/11 Looking North



View of Top of Units 9 & 10/11 Looking North from Unit 13



View of Top of Units 10/11 Looking Southeast



View of Top of Units 9 & 10/11 Looking West



View of Top of Units 9, 10/11 & 12/16 Looking Southwest



View of Vegetation on Unit 12/16



View of Unit 12/16 Looking South



*View of Recent Maintenance Activity
(Repair of Drainage Channel Southeast of Unit 12/16)*



View of South Slope of Unit 12/16



View of Top of Unit 12/16 & Portion of Unit 13 Looking Southwest



View of Top of Unit 12/16 & Portion of Units 9 & 13 Looking Southwest



View of Top of Unit 13 Looking South



View of Top of Unit 13 Looking Southeast



View of Top of Units 9, 10/11 & 13 Looking North from Unit 17



View of Top of Units 13 & 17 Looking South



View of Top of Unit 17 Looking South



View of Top of Unit 17 Looking Southeast

APPENDIX D
QUARTERLY Inspection REPORTS

1
DATE: 1st QUARTER JANUARY @ MARCH

	CONDITION ¹			COMMENTS (Indicate Locations on Plan Sheet)
	NA	MN	IA	
SECURITY CONTROL	✓			ALL FENCES ARE IN GOOD CONDITION. UNIT 9 HAVE A TEMPORARY ENTRANCE FOR THE BRASS EXTRACTION OF THE LEACHATE IN THE UNIT. WARNING SIGNS ARE VISIBLE
EROSION CONTROLS/DAMAGE				ALL THE DITCHES ARE WORKING AS DESIGN. THERE IS NO DAMAGE OBSERVED IN THE UNITS.
FINAL COVER CONDITION				ALL THE FINAL COVERS OF THE UNITS ARE IN GOOD CONDITION. PROTECO STARTS THE MAINTENANCE OF THE UNITS ON JANUARY 16. ALL THE WOODY PLANTS WERE ERADICATED. ALL UNITS ARE DRAINING WELL, THERE IS NO CRACK, SETTLEMENT OR PONDING WATER OBSERVED.
GAS MANAGEMENT SYSTEM	✓			ALL THE VENT PIPES ARE IN GOOD CONDITION. THERE IS NO DAMAGE OBSERVED IN THE VENT PIPES.
CAMU - LEACHATE COLLECTION SYSTEM				THE LEACHATE EXTRACTION IN UNIT 9 START ON JANUARY 16, 2001. THE CENTRIFUGAL PUMP WAS CHANGE BY A SUBMERSIBLE PUMP ON MARCH 22, 2001.
OTHER OBSERVATIONS				THE TOTAL PRECIPITATION IN THE FIRST QUARTER WAS 1.87"
Precipitation				

¹ NA, no action needed; MN, maintenance needed; IA, immediate attention needed

1

DATE: May 8, 2001

PROTECO

Inspection and Maintenance Report

INSPECTION ITEM	CONDITION ¹			COMMENTS (Indicate Locations on Plan Sheet)
	NA	MN	IA	
EROSION CONTROLS/DAMAGE				
Perimeter Ditches	✓			All perimeter ditches were functioning as designed. The main ditch between unit 1 and unit 2/3 is in good condition. The perimeter ditch north of unit 2/3 needs maintenance because of the erosion. The perimeter ditch east of units 17, 13 and 10/11 and continuing north and west of unit 9 is in good condition. The perimeter ditch west of units 9 and 12/16 is in good condition. The perimeter ditch east of unit 12/16 is in good condition, but it has erosion at the end of the channel that needs some maintenance.
Sediment Traps	✓			
Sediment Build-up		✓		There is sediment in the entrance of the four corrugated metal pipe. Needs maintenance.
Culvert End-Walls		✓		The inlets of the four corrugated metal pipes were clean and there is no sediment. The outlet shows some sedimentation.
Brush/Trees/Debris		✓		There is some brush on the four corrugated metal pipes outlet . Needs maintenance.
Ponding or Wet Areas	✓			There no ponding found on the units or ditches.
Riprap	✓			Good condition.
Other		✓		Two of the four pipes are half full of sediment.
FINAL COVER CONDITION				
Undesirable Vegetation	✓			All the woody plants were eradicated and the others are less than one feet in height
Erosion		✓		Units 1, 5, 10/11, 13, 12/16 17 and 9 were in good condition. Units 2/3 south slope shows some erosion problems.
Drainage	✓			All units are draining well with positive surface flow runoff.
Cracks	✓			None observed.
Depressions/Ponded Water	✓			None observed.

¹ NA, no action needed; MN, maintenance needed; IA, immediate attention needed

DATE: May 8, 2001

<h1 style="text-align: center;">PROTECO</h1> <h2 style="text-align: center;">Inspection and Maintenance Report</h2>				
INSPECTION ITEM	CONDITION ¹			COMMENTS (Indicate Locations on Plan Sheet)
	NA	MN	IA	

Settlement	✓			None observed.
Surface Armor	✓			None observed.
Burrows	✓			None observed.
Other				
GAS MANAGEMENT SYSTEM				

Condition of Gas Vents	✓			Gas vents are in good condition. No gas measured from any of the gas vents.
Other				

CAMU - LEACHATE COLLECTION SYSTEM				
Depth of Leachate	✓			On april 2001 was the last leachate extraction on unit 9. Aprox. 4000 gal. was extracted from the unit.
Other				

BENCHMARKS				
Condition	✓			Benchmark 1 remains and is in good condition.
Elevation Surveyed				
Other				

OTHER OBSERVATIONS				
Survey Plat	✓			No up-date to survey plat is needed. No on-going changes in the configuration of the terrain and alterations to the surface water drainage patterns were observed.
Unit 9 (CAMU)				

¹ NA, no action needed; MN, maintenance needed; IA, immediate attention needed

DATE: May 8, 2001

PROTECO

Inspection and Maintenance Report

INSPECTION ITEM	CONDITION ¹			COMMENTS (Indicate Locations on Plan Sheet)
	NA	MN	IA	
Sediment Basin	✓			The sediment basin is being maintained by the adjacent landfill operations as part of their on-going landfill operations and in accordance with their approved Puerto Rico Environmental Quality Board permit.
Precipitation	✓			On May 7 was received 7 " of precipitation within 24 hours period.

¹ NA, no action needed; MN, maintenance needed; IA, immediate attention needed

DATE: May 8, 2001

PROTECO

Inspection and Maintenance Report

ITEM	MAINTENANCE OR REPAIRS REQUIRED	TO BE CONDUCTED BY	DATE COMPLETED	REINSPECTED DATE/INTL.
Unit 1	No maintenance or repairs required.	PROTECO		
Unit 2/3	Repair erosion on south slope and in the north ditch of the unit..	PROTECO	June 2001	June 4, 2001 <i>APS</i>
Unit 5	No maintenance or repairs required.	PROTECO		
Unit 9	No maintenance or repairs required	PROTECO		
Unit 10/11	No maintenance or repairs required.	PROTECO		
Unit 12/16	Repair perimeter ditch at southeast corner of unit.	PROTECO	June 2001	June 4 <i>APS</i>
Unit 13	No maintenance or repairs required	PROTECO		
Unit 17	No maintenance or repairs required	PROTECO		
DATE OF INSPECTION: <u>May 8, 2001</u>		INSPECTOR: <u>Ana Sabatier</u> (print)		
		<i>Ana Sabatier</i> (signature)		

¹ NA, no action needed; MN, maintenance needed; IA, immediate attention needed

1
DATE: 2nd Quarter April @ June

	CONDITION ¹			COMMENTS (Indicate Locations on Plan Sheet)
	NA	MN	IA	
SECURITY CONTROL				FENCING SURROUNDING THE UNITS IS IN GOOD CONDITION. WARNING SIGNS ARE VISIBLE. UNIT 9 HAVE A TEMP. ENTRANCE FOR THE LEACHATE EXTRACTION.
EROSION CONTROLS/DAMAGE				SEE INSPECTION & MAINTENANCE REPORT MAY 8, 2001 ALL THE DITCHES ARE WORKING AS DESIRED. ALL THE OBSERVED EROSION & SEDIMENTATION WERE FIXED BY JUNE 2001
FINAL COVER CONDITION				ALL THE UNITS FINAL COVERS ARE IN GOOD COND. ALL UNITS ARE DRAINING PROPERLY. NO CRACK DEPRESSION OR PONDED WATER OBSERVED SEE INSP. & MAINTENANCE REPORT MAY 8, 2001
GAS MANAGEMENT SYSTEM				ALL THE VENT PIPES ARE IN GOOD CONDITION.
CAMU - LEACHATE COLLECTION SYSTEM				THE LEACHATE EXTRACTION ON UNIT 9 ENDED BY APRIL 11, 2001 THERE WAS APPROX. 4000 GAL OF LEACHATE MOVED.
OTHER OBSERVATIONS				THE TOTAL PRECIPITATION IN THE 2ND QUARTER WAS 9.91"
Precipitation				

¹ NA, no action needed; MN, maintenance needed; IA, immediate attention needed

DATE: 3rd Quarter July @ September

	CONDITION ¹			COMMENTS (Indicate Locations on Plan Sheet)
	NA	MN	IA	

SECURITY CONTROL				FENCING SURROUNDING THE UNITS IS IN GOOD CONDITION. WARNING SIGNS WERE VISIBLE. THERE IS A TEMP. ENTRANCE IN THE UNIT 9
EROSION CONTROLS/DAMAGE				SEE INSP. REPORT OF AUGUST 27, 2001 THERE WAS NO OBSERVED EROSION PROBLEMS IN THE UNITS AFTER 9.40" OF RAIN & ALL THE PERIMETER DISTANCES WORK AS DESIGN
FINAL COVER CONDITION				SEE INSP REPORT OF AUGUST 27, 2001 NO OBSERVED DAMAGE IN THE FINAL COVER, THERE NO CRACKS SETTLEMENT OR PONDING WATER OBSERVED.
GAS MANAGEMENT SYSTEM				ALL THE VENT PIPES ARE IN GOOD COND. NO GAS MEASURED FROM ANY OF THE GAS VENT.
CAMU - LEACHATE COLLECTION SYSTEM				NO LEACHATE WERE EXTRACTED FROM UNIT 9 IN THE 3rd QUARTER
OTHER OBSERVATIONS				THE TOTAL PRECIPITATION RECEIVED IN THE 3rd QUARTER WITH 7.15"
Precipitation				

¹ NA, no action needed; MN, maintenance needed; IA, immediate attention needed

1

DATE: August 27, 2001

PROTECO

Inspection and Maintenance Report

INSPECTION ITEM	CONDITION ¹			COMMENTS (Indicate Locations on Plan Sheet)
	NA	MN	IA	
EROSION CONTROLS/DAMAGE				
Perimeter Ditches	✓			All perimeter ditches are working as design.
Sediment Traps	✓			There were no sediment traps proposed or constructed during closure maintenance.
Sediment Build-up		✓		Sediment build up are in the four 18" corrugated metal pipes inlet.
Culvert End-Walls	✓			
Brush/Trees/Debris		✓		There is some brush and small trees in the four 18" corrugated metal pipes inlet.
Ponding or Wet Areas	✓			There is not ponding or wet area in the units.
Riprap	✓			
Other		✓		Erosion in the slope east to unit 13, caused by the rain water that the channel manage.
FINAL COVER CONDITION				
Undesirable Vegetation	✓			There is no woody plants observed.
Erosion		✓		The south slope of Unit 2/3 shows some erosion and in the northwest side of unit 9.
Drainage	✓			Good Condition
Cracks	✓			None Observed
Depressions/Ponded Water	✓			None Observed
Settlement	✓			None Observed
Surface Armor	✓			Good Condition
Burrows	✓			None Observed
Other				

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1

DATE: August 27, 2001

PROTECO

Inspection and Maintenance Report

INSPECTION ITEM	CONDITION ¹			COMMENTS (Indicate Locations on Plan Sheet)
	NA	MN	IA	
EROSION CONTROLS/DAMAGE				
Perimeter Ditches	✓			All perimeter ditches are working as design.
Sediment Traps	✓			There were no sediment traps proposed or constructed during closure maintenance.
Sediment Build-up		✓		Sediment build up are in the four 18" corrugated metal pipes inlet.
Culvert End-Walls	✓			
Brush/Trees/Debris		✓		There are some brush and small trees in the four 18" corrugated metal pipes inlet.
Ponding or Wet Areas	✓			There is not ponding or wet area in the units.
Riprap	✓			
Other		✓		Erosion in the slope east to unit 13, caused by the rain water that the channel manage.
FINAL COVER CONDITION				
Undesirable Vegetation	✓			There is no woody plants observed.
Erosion		✓		The south slope of Unit 2/3 shows some erosion and in the northwest side of unit 9.
Drainage	✓			Good Condition
Cracks	✓			None Observed
Depressions/Ponded Water	✓			None Observed
Settlement	✓			None Observed
Surface Armor	✓			Good Condition
Burrows	✓			None Observed
Other				

¹ NA, no action needed; MN, maintenance needed; IA, immediate attention needed

DATE: August 27, 2001

PROTECO

Inspection and Maintenance Report

INSPECTION ITEM	CONDITION ¹			COMMENTS (Indicate Locations on Plan Sheet)
	NA	MN	IA	

GAS MANAGEMENT SYSTEM				
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Condition of Gas Vents	✓			Good condition.
Other				

CAMU - LEACHATE COLLECTION SYSTEM				
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Depth of Leachate	✓			
Other				

BENCHMARKS				
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Condition	✓			
Elevation Surveyed	✓			No settlement observed during the inspection.
Other				

OTHER OBSERVATIONS				
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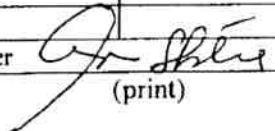
Survey Plat	✓			
Unit 9 (CAMU)				
Sediment Basin	✓			
Precipitation	✓			On August 27, 2001 was received 4.40" of rain within 24 hour period.

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DATE: August 27, 2001

PROTECO

Inspection and Maintenance Report

ITEM	MAINTENANCE OR REPAIRS REQUIRED	TO BE CONDUCTED BY	DATE COMPLETED	REINSPECTED DATE/INTL.
Unit 1	Good Cond. No maintenance or repairs required.	PROTECO	✓	
Unit 2/3	Repair erosion in the south slope of the units.	PROTECO	11/9/01	11/12/01
Unit 5	Good cond. No maintenance or repairs required.	PROTECO		
Unit 9	Repair small erosion in the northwest side of the unit.	PROTECO	11/9/01	11/12/01
Unit 10/11	Good Cond.. No maintenance or repairs required.	PROTECO	-	-
Unit 12/16	Good Cond.. No maintenance or repairs required.	PROTECO	-	-
Unit 13	Good Cond.. No maintenance or repairs required.	PROTECO	-	-
Unit 17	Good Cond.. No maintenance or repairs required.	PROTECO	-	-
DATE OF INSPECTION: August 27, 2001		INSPECTOR: Ana Sabatier  (print) (signature)		

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